



# MICHELIN Mems 4 Data Capture Wand Plus Instructions

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## MICHELIN Mems 4 Data Capture Wand Plus



## PRODUCT NAME

## PRODUCT DESCRIPTION

The MEMS DATA CAPTURE WAND+ receives, via internal antennas, pressure and temperature data transmitted by the MEMS sensors. This information is to be forwarded to the MEMS EVOLUTION4 mobile application through Bluetooth Low Energy, together with any messages that may require corrective action to be taken in order to maximize the service life of the tire. The MEMS DATA CAPTURE WAND+ is also able to read UHF RFID tags according to ISO18000-6c

## PRODUCT SPECIFICATION

### Radio Frequency Characteristics

- RF sensor reception : 433.92 MHz
- Trigger for sensor : 125 KHz
- BLE frequency: 2.4 GHz
- RFID reader : 902 – 928 MHz

### Electrical Performance

- Battery: Li-ion rechargeable 7.4V, 2600mAh (UN3480)
- Typical battery performance: > 3 weeks in standby mode > 8 hours in normal operation

### Charging parameter

- Use DC 12v / 1A charger 12W max- The DC supply must be ES1 and PS2 according to IEC62368-1 standard
- plug Jack 5.5 x 2.1 x 12 mm DC
- Indoor operation within temperature range: 0°C / +40°C (32°F / +104°F)
- Typical battery charging time: 4.5 hours to achieve full charge

### Physical Characteristics

- Approximate dimensions: Long= 250mm Width=95mm Height=50mm
- Approximate weight: 400g

### Operating Conditions in normal Autonomous mode :

- Temperature: -20°C to +40°C (-4°F to / +104°F)
- Indoor or outdoor use – IP 44

IP44 means the product is protected against the ingress of solid foreign objects  $\geq 1\text{mm}$  and against ingress of water with harmful effects splashing

### Storage condition :

- **Temperature 1 year** : -20°C / +25°C (-4°F / 77°F)

- **Temperature 3 months** : -20°C / +45°C (-4°F / 113°F)

**Warning/Caution:** Do not try to replace the internal battery of MEMS DATA CAPTURE WAND+ Battery replacement can only be done by skilled and trained people, with only appropriate specific battery designed for this device. Contact MEMS representative if it has to be done. Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions. Risk of fire explosion or burns.

**Meaning of the symbols on the device:** Barred bin: the device must not be thrown away with normal waste. It must be recycled

## Federal Communications Commission


This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference
2. this device must accept any interference received, including interference that may cause undesired operation
3. Any changes or modifications to this equipment not expressly approved by MICHELIN may cause, harmful interference and void the FCC authorization to operate this equipment This portable equipment with its antenna complies with FCC's radiation exposure limits set forth for an uncontrolled environment. To maintain compliance, follow the instructions bellow
4. This transmitter must not be co-located or operating with any other antenna or transmitter
5. Avoid direct contact to the antenna, or keep contact to a minimum while using this equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

## Documents / Resources

	<p><a href="#">MICHELIN Mems 4 Data Capture Wand Plus</a> [pdf] Instructions WAN02-1, WAN021, FI5-WAN02-1, FI5WAN021, Mems 4 Data Capture Wand Plus</p>
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